

## PREFACE

The research reports and proceedings papers in this volume were presented during the 3rd Joint Conferences on Algebra, Logic and Number Theory, that were held on June 8–13, 2014 in Będlewo, Poland. These conferences unite two simultaneous events: the Czech, Polish and Slovak Conferences on Number Theory that have been organized since 1996 every two years by either the University of Silesia in Katowice, Poland, or the Czech or Slovak side, and the Colloquiumfests, which have been annual gatherings first organized at the University of Saskatchewan in Canada in 2000, and later also at the Institut Henri Poincaré in Paris, the CUNY Graduate Center in New York, and at Bogazici University in Istanbul. The main theme of the last meeting was focusing on real algebra and its interactions with other branches of algebra, logic and number theory, with particular emphasis on quadratic forms and their axiomatic theories, linear algebraic groups and K-theory, valuation theory, as well as algebraic and real algebraic geometry.

During the conference a total number of 71 participants from 17 countries (Belgium, Canada, Croatia, Czech Republic, Denmark, France, Germany, Hungary, Iran, Ireland, Israel, Lithuania, Poland, Spain, Switzerland, United Kingdom and the United States) came to Będlewo and delivered 52 talks, which included 14 plenary talks given by invited speakers. Whilst the plenary talks were primarily scheduled during morning sessions, short talks were held parallel in the afternoon in two sessions, one mostly devoted to number theory, and the other one to algebra and logic.

On behalf of the Organizing Committee we would like to thank the participants of the conference for making it such a successful event, and the contributors to the volume for their time and work. We would also like to express our gratitude for generous support received from the Banach Center and the Warsaw Center of Mathematics and Computer Science (WCNM), which made our gathering possible to organize. Particular thanks are also due to the support staff at the Banach Center for all their help and creating a warm and welcoming environment for the meeting.

We would like to dedicate this volume to the memory of Professor Kazimierz Szymiczek, who died on July 20, 2015. Many of us consider ourselves to be his students; both his work and his life have been—and continue to be—an inspiration to us. He remained active towards the last of his days, and, among numerous tasks that he undertook, participated in the creation of this volume.

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